

PHASE DIFFERENCE PLATE

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Abstract of JP 60024502 (A)

PURPOSE:To obtain a plastic phase difference plate low in cost, and superior in humidity and heat resistance by using a polyolefin resin. **CONSTITUTION:**A homopolymer or copolymer of alpha-olefin, such as ethylene, propylene, or 1-butene, is used, and the copolymers are preferable in respect of optical characteristics. To prepare a phase difference plate, a stabilizer, UV absorber, lubricant, fluidizing agent, or the like are added to said polyolefin, when they are needed, and the mixture is formed into a 25-500µm thick film by the general T-die extrusion or inflation methods. The ratio of thickness of the resin extruded from the T-die to that drawn and cooled depends on the thickness and the birefringence extent of the phase difference plate to be formed, and it is usually proper to control it in the range of 4-50. The film thus obtained is further heat fixed to eliminate strain before its use.

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